



RECEIVED
FEB 11 2002
TECHNOLOGY CENTER R3700

Related Pending Application
Related Case Serial No: 09/964,623
Related Case Filing Date: 09-28-01

What is claimed is:

1. An apparatus for manufacturing an optical fiber soot comprising a core partition provided on a periphery of a
5 core burner, in a reactor of the apparatus to be used in a VAD method.
2. The apparatus according to claim 1, wherein said
10 core partition has an opening portion at a core burner side.
3. The apparatus according to claim 1, wherein said
core partition at least has a height that is same as a
position of a core burner nozzle, the core partition has a
15 cylindrical shape having a diameter not less than the diameter of a porous soot, the core partition is provided below the porous soot, and a bottom of the core partition contacts a bottom surface of said reactor.
- 20 4. The apparatus according to claim 1, wherein the width of the opening portion of the core partition is smaller than the width of the core partition itself.
- 25 5. The apparatus according to claim 1, wherein the width d of the opening portion of said core partition has

RECEIVED
APR 29 2002
TC 1700

a value satisfying: $0.5W(D) < d < 0.8W(D)$
to the width W or the diameter D of said core partition.

6. The apparatus according to claim 1, wherein the
5 width d of the opening portion of said core partition is
changable.

7. The apparatus according to claim 1, wherein the
width d of the opening portion of said core partition is
10 about ten times the bore width b of the aperture of the
core burner.

8. The apparatus according to claim 1, wherein said
core partition rectifies the airflow in said reactor.
15

9. A method for manufacturing an optical fiber soot,
comprising using an apparatus for manufacturing an optical
fiber soot, wherein, in the apparatus, a core partition is
provided on a periphery of a core burner, in a reactor of
20 said apparatus to be used in a VAD method.

10. The method according to claim 9, wherein said core
partition has an opening portion at said core burner side.